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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/750,246

12/29/2000

Dong Yeung Kwak

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01/31/2003

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EXAMINER

TON, MINH TOAN T

ART UNIT

PAPER NUMBER

2871

DATE MAILED: 01/31/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/750,246

Applicant(s)

KWAK ET AL.

Examiner

Toan Ton

Art Unit

2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 22 November 2002.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

### Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

***Claim Rejections - 35 USC § 103***

1. Claims 1-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Prior Art (APA hereinafter, Figures 1-6) in view of Nakahara et al (US 5982470).

APA discloses all except for gate dummy patterns and data dummy patterns.

Nakahara discloses the use dummy patterns within the same context as Applicant's claimed invention yield advantages such as uniform thickness of the seal on four sides, a difference in brightness between a central portion and portion in a vicinity of the seal in the display region can be eliminated. Therefore, it would have been obvious to one of ordinary skill in the art to employ such dummy patterns for achieving advantages such as uniform thickness of the seal on four sides, a difference in brightness between a central portion and portion in a vicinity of the seal in the display region can be eliminated.

Per claims 2-3, 6-7, 10, 11, 14-15, 18-19 and 22-23, it would have been *at least* obvious to one of ordinary skill to manufacture employing same steps or/and same materials for achieving several common reasons in the art such as cost-reduction(effective).

2. Claims 1-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Prior Art (APA hereinafter, Figures 1-6) in view of Hayakawa et al (US 6172732).

APA discloses all except for gate dummy patterns and data dummy patterns.

Hayakawa discloses the use dummy patterns within the same context as Applicant's claimed invention yield advantages such as an unevenness of liquid crystal cell gap is improved. Therefore, it would have been obvious to one of ordinary skill in the art to employ such dummy patterns for achieving advantages such as an unevenness of liquid crystal cell gap is improved.

Per claims 2-3, 6-7, 10, 11, 14-15, 18-19 and 22-23, see detailed explanations above.

***Response to Arguments***

3. Applicant's arguments filed 11-22-02 have been fully considered but they are not persuasive.

Applicant's arguments are as follows :

- (1) Nakahara fails to cure the deficiencies of Applicant's Figures 1-6.
- (2) Hayakawa fails to cure the deficiencies of Applicant's Figures 1-6.
- (3) Neither reference teaches gate dummy patterns.
- (4) The application comprises a method of irradiating a film by scanning it more than once so that a portion of the beams overlap in the energy slope regions.

Examiner's responses to Applicant's arguments are as follows :

- (1) APA discloses all except for gate dummy patterns and data dummy patterns.
- Nakahara discloses the use dummy patterns within the same context as Applicant's claimed invention yield advantages such as uniform thickness of the seal on four sides, a difference in brightness between a central portion and portion in a vicinity of the seal in the display region can be eliminated. Therefore, it would have been obvious to one of ordinary skill in the art to employ such dummy patterns for achieving advantages such as uniform thickness of the seal on four sides, a difference in brightness between a central portion and portion in a vicinity of the seal in the display region can be eliminated.

Art Unit: 2871

(2) APA discloses all except for gate dummy patterns and data dummy patterns.

Hayakawa discloses the use dummy patterns within the same context as Applicant's claimed invention yield advantages such as an unevenness of liquid crystal cell gap is improved.

Therefore, it would have been obvious to one of ordinary skill in the art to employ such dummy patterns for achieving advantages such as an unevenness of liquid crystal cell gap is improved.

(3) Both references disclose a liquid crystal display device employing dummy patterns, wherein the use of dummy patterns yields several advantages such as a difference in brightness between a central portion and portion in a vicinity of the seal in the display region can be eliminated (Nakahara), an unevenness of liquid crystal cell gap is improved (Hayakawa).

(4) Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims.

### *Conclusion*

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,


Att Unit: 2871

however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

***Contact Information***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to T. TON whose telephone number is (703) 305-3489. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

January 28, 2003

  
T. TON  
PRIMARY EXAMINER